

## CLAIMS

What is claimed is:

1. A modular grill cooker, comprising:  
an outer casing having an open top;  
an inner casing having an open top, and having a size less than that of the outer casing to set the inner casing in the outer casing, while defining a space between the inner casing and the outer casing;  
a heating unit mounted to a predetermined portion of the inner casing; and  
a grilling unit seated on the open top of the outer casing to grill food placed on the grilling unit.
2. The modular grill cooker according to claim 1, further comprising:  
a frame placed along upper edges of the inner casing and the outer casing to prevent the inner casing from moving relative to the outer casing.
3. The modular grill cooker according to claim 2, wherein the frame comprises:  
an extension part inwardly extending from an outer edge of the frame; and  
a support step downwardly inclined from an inner edge of the extension part, the outer edge of the frame being fastened to the outer casing and the upper edge of the inner casing being supported by the support step to hold the inner casing in the outer casing.
4. The modular grill cooker according to claim 1, further comprising:  
a heat reflecting plate provided on a side surface of the inner casing, and supporting the heating unit on the inner casing.
5. The modular grill cooker according to claim 4, further comprising:  
a projection provided on a back surface of the heating unit that passes through a hole formed in the heat reflecting plate; and  
at least one elastic piece fitted over the projection at a back surface of the heat reflecting plate to mount the heating unit to the heat reflecting plate.

6. The modular grill cooker according to claim 5, further comprising:  
a flange provided along an edge of the hole of the heat reflecting plate that forwardly projects from the heat reflecting plate to provide a space between the heating unit and the heat reflecting plate.

7. The modular grill cooker according to claim 4, further comprising locking holes on upper and lower portions of front and rear ends of the heat reflecting plate, and on upper and lower portions of front and rear surfaces of the inner casing, to lock the heat reflecting plate to the front and rear surfaces of the inner casing.

8. The modular grill cooker according to claim 7, wherein any one of the locking holes provided on each of the front and rear surfaces of the inner casing is formed in a horizontal direction to allow an angle of the heat reflecting plate relative to the inner casing to be adjusted.

9. The modular grill cooker according to claim 1, further comprising:  
a grease collecting/heat reflecting unit installed in the inner casing to collect grease and sauces dripping from the food, and to reflect heat from the heating unit to the grilling unit.

10. The modular grill cooker according to claim 9, wherein the grease collecting/heat reflecting unit contains water therein to prevent the grease and the sauces collected in the grease collecting/heat reflecting unit from burning due to heat transmitted from the heating unit.

11. The modular grill cooker according to claim 9, further comprising:  
a handle provided on each of front and rear ends of the grease collecting/heat reflecting unit that moves in a vertical direction to allow the grease collecting/heat reflecting unit to be put into or removed from the inner casing.

12. The modular grill cooker according to claim 1, wherein the grilling unit comprises:  
a plurality of grilling pipes; and  
a frame mounted to the grilling pipes to communicate with the grilling pipes, with a water supply hole being formed on an upper portion of the frame to supply water into the grilling pipes.

13. The modular grill cooker according to claim 1, wherein the outer casing has a contact terminal to supply external electricity to the heating unit.

14. The modular grill cooker according to claim 6, further comprising:  
a groove formed along a circumference of the projection, the at least one elastic piece being fitted over the groove of the projection.

15. The modular grill cooker according to claim 14, wherein the at least one elastic piece comprises a first elastic piece and a second elastic piece, the first elastic piece having a horizontal slot with a width less than a width of the groove, the first elastic piece being elastically opened to make the slot wider to engage the groove, and the second elastic piece having a shape of a waved rectangular ring that is fitted over the projection in front of the first elastic piece to elastically support the heating unit relative to the heat reflecting plate.

16. The modular grill cooker according to claim 1, further comprising legs downwardly projected from both sides of a bottom of the inner casing and contacting a bottom of the outer casing to provide a space between the bottom of the inner casing and the bottom of the outer casing.

17. The modular grill cooker according to claim 13, wherein wires that connect the heating unit to the contact terminal are placed in the space defined between the inner casing and the outer casing, the space preventing heat generated from the heating unit from being transmitted through the inner casing to the outer casing.

18. A multipurpose cooking apparatus, comprising:  
a housing having one or more recesses on an upper portion of the housing; and  
a modular grill cooker removably seated in one of the recesses, the modular grill cooker comprising:

an outer casing having an open top;  
an inner casing having an open top, and having a size less than that of the outer casing to the inner casing set in the outer casing, while defining a space between the inner casing and the outer casing;  
at least one heat reflecting plate set in the inner casing;

a heating unit mounted to a predetermined portion of the at least one heat reflecting plate; and

a frame placed along upper edges of the inner casing and the outer casing to prevent the inner casing from moving relative to the outer casing.

19. The multipurpose cooking apparatus according to claim 18, further comprising:  
a first contact terminal provided on an outer surface of the outer casing; and  
a second contact terminal provided in the recess of the housing and corresponding to the first contact terminal to supply electricity to the heating unit when the modular grill cooker is seated in the recess, the first contact terminal contacting the second contact terminal.

20. The multipurpose cooking apparatus according to claim 19, wherein the first contact terminal is installed on one of a side surface, a front surface, a rear surface, and a bottom surface of the outer casing, and the second contact terminal is installed in the recess at a position corresponding to the first contact terminal.

21. The multipurpose cooking apparatus according to claim 20, wherein the first contact terminal is a male terminal, and the second contact terminal is a female terminal.

22. The multipurpose cooking apparatus according to claim 18, further comprising:  
a grilling unit seated on the frame to grill food placed on the grilling unit.

23. The multipurpose cooking apparatus according to claim 22, further comprising:  
a grease collecting/heat reflecting unit installed in the inner casing to collect grease and sauces dripping from the food, and to reflect heat from the heating unit to the grilling unit.